

Title (en)
USE OF GUANETHIDINE FOR TREATING HYPERTENSION BY LOCAL VASCULAR DELIVERY

Title (de)
VERWENDUNG VON GUANETHIDIN ZUR BEHANDLUNG VON BLUTHOCHDRUCK ÜBER LOKALE VASKULÄRE FREISETZUNG

Title (fr)
UTILISATION DE GUANÉTHIDINE POUR LE TRAITEMENT D'UNE HYPERTENSION PAR UNE ADMINISTRATION VASCULAIRE LOCALE

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Application
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Priority

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Abstract (en)
[origin: WO2010124120A1] Sympathetic nerves run through the adventitia surrounding renal arteries and are critical in the modulation of systemic hypertension. Hyperactivity of these nerves can cause renal hypertension, a disease prevalent in 30-40% of the adult population. Hypertension can be treated with neuromodulating agents (such as angiotensin converting enzyme inhibitors, angiotensin II inhibitors, or aldosterone receptor blockers), but requires adherence to strict medication regimens and often does not reach target blood pressure threshold to reduce risk of major cardiovascular events. A minimally invasive solution is presented here to reduce the activity of the sympathetic nerves surrounding the renal artery by locally delivering neurotoxic or nerve-blocking agents into the adventitia. Extended elution of these agents may also be accomplished in order to tailor the therapy to the patient.

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